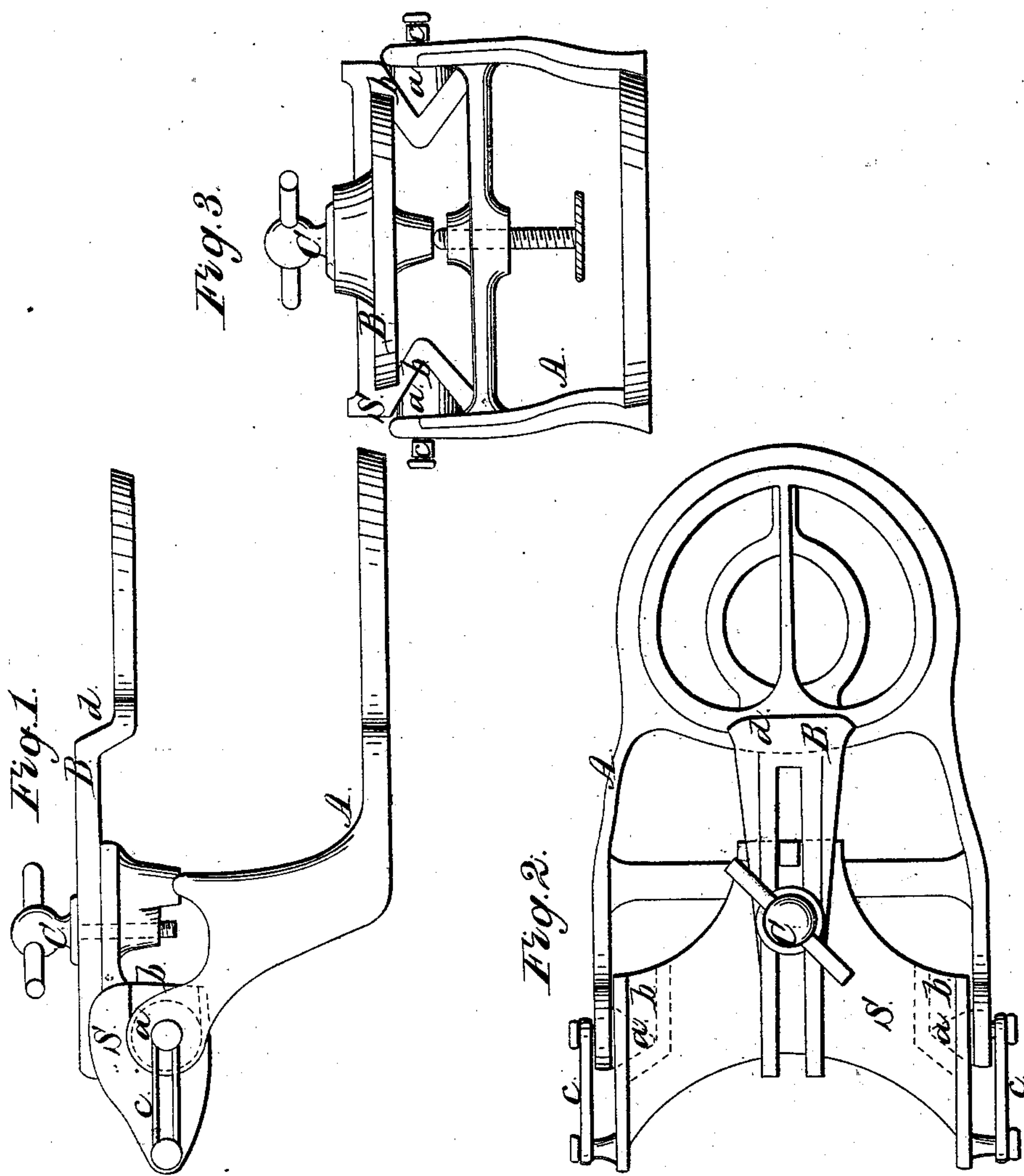


E. T. Starr,
Dental Articulator.
N^o 78,151. Patented May 19, 1868.



Witnesses.
A. J. Ellers
E. P. Dracy

Inventor.
E. T. Starr
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ELI T. STARR, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 78,151, dated May 19, 1868.

IMPROVEMENT IN ARTICULATORS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, ELI T. STARR, of the city and county of Philadelphia, in the State of Pennsylvania, have invented a new and useful Improvement on Articulators, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing forming part of this specification, and in which—

Figure 1 represents a side view of an articulator constructed according to my improvement.

Figure 2 a plan of the same, and

Figure 3 a front view thereof.

Similar letters of reference indicate corresponding parts.

In dentistry, it has long been a desideratum to construct an articulator which should possess all the necessary movements for obtaining a correct articulation of artificial dentures. This my invention claims to effect, and combines simplicity of adjustment or attachment of the upper and lower plates, either for repair or otherwise, the lower plate moving on cone-shaped pivots in V-shaped grooves, free of regular hinges, the same being retained in position by springs, arranged to admit of a ready detachment and self-tightening or close working of the joint; also the upper plate being bent or crooked, so that on reversing it the distance between the two plates may be changed, to allow for both upper and lower dentures.

Referring to the accompanying drawing, A represents the lower plate, which is modelled from the natural jaw. This lower plate is constructed to move on or with cone-shaped pivots, *a*, in V-shaped grooves, *b*, formed in the upper plate B or bracket *s*, carrying the same, and is retained in position by elastic rubber bands or rings, *c*, or, if desired, spiral springs may be substituted therefor.

The upper plate, B, is, as in other articulators, connected with the bracket or vibrating portion *s* thereof, by slot and set-screw, to admit of its required backward or forward movement and retention at any desired point. C is the usual set-screw for effecting the up and down adjustment of the plate B.

To allow for both upper and lower dentures, I crook the upper plate, as at *d*, so that, on reversing it from the position shown in the drawing, an increase of one inch, more or less, in space, is obtained between the plates A and B.

By this, my improvement, a backward, forward, and lateral motion is provided for, corresponding with the movements of the natural jaw, by which the arrangement of the denture can be practically tested without disturbing the articulation.

What is here claimed, and desired to be secured by Letters Patent, is—

1. The attachment of the lower plate A to the upper plate B, or its bracket, by cone-shaped pivots *a*, arranged to fit V-shaped grooves *b*, and retained in position by springs, substantially as specified.
2. Constructing the reversible upper plate B with a crook, as at *d*, essentially as and for the purpose herein set forth.

ELI T. STARR.

Witnesses:

WM. H. COCHRANE.

J. W. WHITE.